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## MATERIAL SAFETY DATA SHEET

MSDS #: LDL 0006  
Supersedes: LDL 0005

Issue Date: 09/25/03  
Issue Date: 02/10/03

### SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Hand Dishwashing Detergents**

Brands:

**DAWN (All Variations)**

**IVORY (All Variations)**

**JOY (All Variations)**

**SALVO**

Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2= MODERATE
			1=SLIGHT

Emergency Telephone Number: 24hr P&G Operator:

DAWN 1-800-725-3296 (DAWN)

IVORY 1-800-253-2753 (IVORY)

JOY 1-800-436-1569 (JOY)

SALVO 1-800-824-3076

or call Local Poison Control Center or your physician

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>
Ethyl alcohol	Ethanol	64-17-5	ACGIH TLV: 1880 mg/m <sup>3</sup>	1-6%
Subtilisin	Protease	9014-01-1	NIOSH STEL 0.00006 mg/m <sup>3</sup>	<0.01%
Amylase	Amylase	9000-90-2	NIOSH STEL 0.00006 mg/m <sup>3</sup>	<0.01%

**SECTION III - HAZARDS IDENTIFICATION****Health Hazards (Acute and Chronic):**

Ingestions: Ingestion may cause transient gastrointestinal irritation.  
 Eye Contact: May cause mild, transient irritation.  
 Skin: Transient irritation with prolonged exposure to concentrated material.

**Signs and Symptoms of Exposure:**

Ingestion: May result in nausea, vomiting, and/or diarrhea.  
 Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.  
 Skin: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

**SECTION IV - FIRST AID INFORMATION****Emergency and First Aid Procedures:**

Ingestion: Drink 1 or 2 glasses of water.  
 Eye Contact: Flush thoroughly with water for 15 minutes.  
 Skin: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

**Other:** Consumer product package has a voluntary avoid accidents statement.

**SECTION V - FIRE FIGHTING INFORMATION**

**Flash Point (Method Used):** 115-135°F. Pensky-Martens (Closed cup)      **Explosive Limits:**      *LEL:* N/A      *UEL:* N/A

**Extinguishing Media:** CO<sub>2</sub>, water or dry chemical.

**Special Fire Fighting Procedures:** None. Although this product has a flash point below 200°F (closed cup), it is a >50% aqueous solution that does **not** sustain combustion.

DOT classification is non-hazardous.

**Unusual Fire Hazards:** None

**Stability**      *Unstable:*      *Conditions to Avoid:* None known  
                          *Stable:* X

**Incompatibility (Materials to Avoid):** None known

**Hazardous Decomposition/By Products:** None known

**Hazardous Polymerization:**      *May Occur:*      *Conditions to Avoid:* None known  
    *Will Not Occur:* X

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** None

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer -- First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

**Steps To Be Taken in Case Material is Released or Spilled:** Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

**SECTION VII - HANDLING AND STORAGE****Precautions To Be Taken in Handling and Storing:** No unusual precautions necessary.**Other Precautions:** None known**SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION****Respiratory Protection (Specify Type):** None required with normal use.**Ventilation** *Local Exhaust:* None required with normal consumer use.*Special:* None*Mechanical (General):* Normal/general dilution ventilation is acceptable. *Other:* None**Eye Protection:** None required with normal consumer use.*Industrial Setting:* For splash protection, use chemical goggles. Eye Wash fountain is desirable.**Protective Gloves:** None required with normal use.*Industrial Setting:* Protective gloves (rubber, neoprene) should be used for prolonged direct contact.**Other Protective Equipment:** None required with normal use.**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES****Boiling Point °F:** Not known**Specific Gravity (H<sub>2</sub>O=1):** ca. 1**Vapor Pressure (mm Hg):** N/A**Percent Volatile by Volume (%):** ~60-65%**Vapor Density (Air=1):** N/A**Evaporation Rate (nBuOAc=1):** Unknown**Odor Threshold:** N/A**Freezing Point:** ~ 30 F**Coefficient of Water/Oil Distribution:** N/A**pH:** 8-9**Scooped Density:** N/A**Solubility in Water:** Completely**Appearance and Odor:** Purple, Blue, Green, Yellow, Pink or Orange liquids. All products are perfumed.**Reserve Alkalinity:** N/A**SECTION X - STABILITY AND REACTIVITY****Possible Hazardous Reactions/Conditions:** None known**Conditions to Avoid:** None**Materials to Avoid:** None**Hazardous Decomposition Products:** None known**Other Recommendations:** None**SECTION XI - TOXICOLOGICAL INFORMATION**

LD50 (rats oral): approx 12 mL/kg

ED50 approx 2.3 mL/kg

Liquid hand dishwashing detergents have a relatively low order of toxicity. They may be irritating, but they are not expected to be corrosive. They are expected to be emetic.

**SECTION XII - ECOLOGICAL INFORMATION**

All surfactants are readily biodegradable. These products are safe for septic tanks.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Disposal is to be performed in compliance with Federal, state and local regulations.

Household product is safe for disposal down the drain during use or in the trash.

*Industrial Setting:* Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer.

First check with your local water treatment plant. Recycling is recommended for undiluted scrap product.

Do not landfill.

**SECTION XIV - TRANSPORT INFORMATION**

Dawn, Joy, Ivory and Salvo are non-hazardous under DOT.

**SECTION XV - ADDITIONAL REGULATORY INFORMATION**

All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

No components of Dawn, Ivory, Joy or Salvo are subject to California Proposition 65 labeling.

All ingredients are CEPA approved for import to Canada by Procter & Gamble only.

**SECTION XVI - OTHER INFORMATION**

\*N/A. - Not Applicable

\*N/K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

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